## AMENDMENT TO THE CLAIMS

1. (Currently Amended) A method of manufacturing an electro line for a semiconductor device, comprising:

depositing a molybdenum (Mo) layer on a substrate;

depositing a copper layer (Cu) on the Mo layer;

forming a photoresist pattern on the Cu layer;

etching the Cu layer and the Mo layer using an etchant to form a Mo/Cu electro line, wherein the photoresist pattern is used as a patterning mask; and

removing Mo residue around the Mo/Cu electro line,

wherein removing the Mo residue around the Mo/Cu electro line includes oxidizing the Mo residue and removing the oxidized Mo residue, and

wherein oxidizing the Mo residue includes one of an  $O_2$  ashing process, an Ultra Violet treating process and an  $O_2$  annealing process.

- 2. (Canceled)
- 3. (Canceled)
- 4. (Currently Amended) The method according to claim [[2]] 1, wherein removing the oxidized Mo residue includes using one of stripper, deionized (DI) water, and dilute solution including hydrogen fluoride (HF).
- 5. (Currently Amended) The method according to claim [[2]] 1, wherein removing the oxidized Mo residue further includes removing the photoresist pattern.
- 6. (Original) The method according to claim 1, wherein removing the Mo residue around the Mo/Cu electro line is performed using ozone (O<sub>3</sub>) water.
- 7. (Original) The method according to claim 1, wherein the etchant includes hydrogen peroxide  $(H_2O_2)$ .

8. (Currently Amended) A method of manufacturing a liquid crystal display device including a Mo/Cu electro line, comprising:

forming a gate line and a gate electrode, including:

depositing a molybdenum (Mo) layer on a substrate;

depositing a copper layer (Cu) on the Mo layer;

forming a photoresist pattern on the Cu layer;

etching the Cu layer and the Mo layer using an etchant to form a Mo/Cu electro line,

wherein the photoresist pattern is used as a patterning mask; [[and]]

removing Mo residue around the Mo/Cu electro line;

forming a gate insulating layer on the gate line and the gate electrode;

forming a semiconductor layer on the gate insulating layer over the gate electrode;

forming a data line, a source electrode and a drain electrode on the semiconductor layer;

forming a passivation layer on the data line, the source electrode and the drain electrode;

and

forming a pixel electrode on the passivation layer,

wherein removing the Mo residue around the Mo/Cu electro line includes oxidizing the Mo residue and removing the oxidized Mo residue, and

wherein oxidizing the Mo residue includes one of an O<sub>2</sub> ashing process, an Ultra Violet treating process and an O<sub>2</sub> annealing process.

- 9. (Canceled)
- 10. (Canceled)
- 11. (Currently Amended) The method according to claim [[9]] 8, wherein removing the oxidized Mo residue includes using one of stripper, deionized (DI) water, and dilute solution including hydrogen fluoride (HF).
- 12. (Currently Amended) The method according to claim [[9]] 8, wherein removing the oxidized Mo residue further includes removing the photoresist pattern.

- (Original) The method according to claim 8, wherein removing the Mo residue 13. around the Mo/Cu electro line is performed using ozone (O<sub>3</sub>) water.
- (Original) The method according to claim 8, wherein the etchant includes 14. hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>).
- (Original) The method according to claim 8, wherein forming a data line, a source electrode and a drain electrode on the semiconductor layer includes forming a Mo/Cu structure. 15.
- (Original) The method according to claim 15, wherein forming the Mo/Cu 16. structure includes:

depositing a molybdenum (Mo) layer on a substrate;

depositing a copper layer (Cu) on the Mo layer;

forming a photoresist pattern on the Cu layer;

etching the Cu layer and the Mo layer using an etchant to form a Mo/Cu line, wherein the photoresist pattern is used as a patterning mask; and

removing Mo residue around the Mo/Cu line.